UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/775,164	02/11/2004	Chia-Hwa Lee	4444-0135P	1211

2292 7590 09/20/2005

BIRCH STEWART KOLASCH & BIRCH
PO BOX 747
FALLS CHURCH, VA 22040-0747

EXAMINER	
WANG, JIN CHENG	
ART UNIT	**PAPER NUMBER**
2672	

DATE MAILED: 09/20/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/775,164	LEE ET AL.	
	Examiner	Art Unit	
	Jin-Cheng Wang	2672	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☐ Responsive to communication(s) filed on _____.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) 1-39 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) 1-39 is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-39 are rejected under 35 U.S.C. 102(b) as being anticipated by Yanker U.S. Patent No. 5,187,776 (hereinafter Yanker).

Re Claims 1 and 23:

Yanker discloses a method of zooming digital images by a single coordinate, comprising:

Displaying an image in a display area (*See Figs. 2 and 3 wherein an image 18 is displayed on the screen 10*), wherein said image being displayed according to an image information (*e.g., the image 18 is displayed according to the zoom level, the screen coordinate position of the cursor 16 and the size of the zoom window; see column 6, lines 35-40*);

Acquiring a position base of said image information (*e.g., the screen coordinate position of the cursor 16 and the size and coordinates of the zoom window; see column 6, lines 35-40*), wherein said position base being acquired according to said image information relative to a coordinate of said display area (*e.g., the screen coordinate position of the cursor 16 located at the center of the currently displayed image is thus relative to the center coordinate, the size and locations of the display screen 10; see column 6, lines 35-40; and moreover, the cursor 16 moves left, right, up or down; see column 5, lines 1-8*);

Acquiring a zooming ratio (*e.g., a zoom level is determined wherein the zoom level is a zoom ratio; see column 6, lines 29-35*); and

Using said image information to renew a zoomed image (*zoom image 18 is displayed on the screen 10 wherein the image 18 has been zoomed and thereby renewed; Figs. 2 and 3*) in said display area according to said zooming ratio and said position base (*e.g., column 5-6; see also column 4 wherein the operator repositions the cursor 16 within the magnified image window and the zoomed image is renewed according to the zoom level and the cursor position*).

Re Claims 2 and 24-26:

Yanker further discloses the cursor coordinate being acquired by shifting a cursor displayed in the display screen 10 to a desired coordinate or the center coordinate of the displayed image and therefore the position of the cursor being the center coordinate of the displayed image.

Claim 3:

Yanker further discloses the index being a cursor.

Re Claims 4 and 27:

Yanker further discloses the zooming ratio being acquired by choosing one from a plurality of default zooming ratios (e.g., a plurality of selectable zoom levels; see column 3, lines 5-12).

Re Claims 5, 28 and 35:

Yanker further discloses the zooming ratio being acquired by manual input (e.g., an operator changes the magnification level via the keyboard 6 and the CPU 2 recalculates the logical pel size and the zoom window coordinates; see column 6, lines 56-65).

Re Claim 6:

Yanker further discloses the zoomed image being renewed directly in said display area 10 according to said cursor position/the zoom window coordinates and the zooming level (e.g., column 6).

Claim 7:

Yanker further discloses the center position of the display screen 10 is further acquired when acquiring a position base of the cursor as the operator reposition the cursor because the position of the user positioned cursor is determined within the image in which the cursor position is referenced to the coordinates of the WP image, and the current cursor 16 screen coordinate position is recorded by the CPU 2 and the current zoom level is determined (e.g., the coordinates of the zoom window are a function of the cursor position, in that the window is centered on the cursor, the zoom level and the size of the zoom window; column 5-6).

Re Claims 8 and 36:

Yanker further discloses the zoomed image is renewed in central position of said display area 10 according to said position base of the cursor, said zoom level and coordinate of the central position of the image (column 5-6).

Re Claims 9 and 37:

Yanker further discloses the display area being limited to the zoom window having four corners and the zoom image in the zoom window is renewed in one corner of the display area 10 according to the position base and the zoom level (e.g., Figs. 2-3 and column 5-6).

Re Claims 10 and 38:

Yanker further discloses that the zoom image being zoomed in according to the zooming level (column 6, lines 35-65).

Re Claims 11 and 39:

Yanker further discloses the zoomed image being zoomed out according to the zooming level (column 6, lines 35-40).

Claim 12:

Yanker further discloses the zooming ratio conforms to the display area 10 when said zoomed image being displayed directly (column 6, lines 35-40).

Claim 13:

Yanker discloses a method of zooming digital images by a plurality of coordinates, comprising:

Displaying an image in a display area, wherein said image being displayed according to an image information (Figs. 2-3 and column 5-6);

Acquiring a 1st coordinate of said image information (*e.g., acquiring a 1st coordinate location of the cursor as the operator changes from 1st coordinate location to a second coordinate location; column 4, lines 22-35 and the cursor movement in the same direction*

causes the screen 10 to pan in order to accommodate the continuing movement of the cursor 16; column 4, lines 60-66);

Acquiring a 2nd coordinate of said image information (*e.g., acquiring a 2nd coordinate location of the cursor as the operator changes from 1st coordinate location to a second coordinate location; column 4, lines 22-35 and the cursor movement in the same direction causes the screen 10 to* ***pan*** *in order to accommodate the continuing movement of the cursor 16; column 4, lines 60-66*);

Acquiring a position base relative to a zoomed image of said 1st coordinate and said 2nd coordinate (*e.g., the cursor positions are determined so that the zoomed image is centered around the cursor position*), wherein said position base being acquired according to said 1st coordinate and said 2nd coordinate (*e.g., the zoomed image is being shifted as cursor moves; column 4*);

Calculating a zooming ratio (*e.g., determining a zoom level, column 6*); and

Using said image information to renew said zoomed image in said display area according to said zooming ratio and said position base (*e.g., the operator changes the magnification level via the keyboard and the CPU 2 recalculates the logical pel size and the zoom window coordinates and the zoom image is magnified and re-centered; column 6*).

Claim 14:

Yanker further discloses that the coordinate of the center position of the display area 10 is further acquired when accruing said position base of the cursor (e.g., the position of the user positioned cursor is determined within the image in which the cursor position is referenced to the

coordinates of the WP image, and the current cursor 16 screen coordinate position is recorded by the CPU 2 and the current zoom level is determined. The coordinates of the zoom window are a function of the cursor position, in that the window is centered on the cursor, the zoom level and the size of the zoom window; column 5-6).

Re Claims 15 and 29-30:

Yanker further discloses a relative coordinate is acquired by shifting the cursor displayed in said display area respectively to said 1st coordinate and said 2nd coordinate and therefore position of the cursor is said relative coordinate (e.g., if the cursor 16 intersects an edge of the viewpoint 12, the viewport 12 is shifted to another position upon the display 10 and as the cursor 16 is panned across the enlarged image the cursor 14 of the viewport 12 moves relative to the image area approximately in unison; column 4).

Re Claims 16-18 and 31-34:

Yanker further discloses that the zooming ratio being acquired by a ratio of the display dimension relative to the distance between the 1st coordinate and the 2nd coordinate (e.g., column 6).

Re Claim 19:

Yanker further discloses the display area being limited to the zoom window having four corners and the zoom image in the zoom window is renewed in one corner of the display area 10 according to the position base and the zoom level (e.g., Figs. 2-3 and column 5-6).

Re Claim 20:

Yanker further discloses that the zoom image being zoomed in according to the zooming level (column 6, lines 35-65).

Re Claim 21:

Yanker further discloses the zoomed image being zoomed out according to the zooming level (column 6, lines 35-40).

Re Claim 22:

Yanker further discloses the zooming ratio conforms to the display area 10 when said zoomed image being displayed directly (column 6, lines 35-40).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jin-Cheng Wang whose telephone number is (571) 272-7665. The examiner can normally be reached on 8:00 - 6:30 (Mon-Thu).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mike Razavi can be reached on (571) 272-7664. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

jcw

MICHAEL RAZAVI
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600